

## ABSTRACT

A technique to stabilize the effective refraction index of a laser generating system's wave guide, as well as a technique to stabilize the phase of the wave guide. In at least one embodiment of the invention, a polymer is used within the wave guide to counteract the effects of temperature on the clad material of the wave guide in order to create an overall effective refraction index that is substantially independent of temperature variations. Furthermore, in at least one embodiment of the invention relative segment lengths of the wave guide are chosen to stabilize the phase of the wave guide.